

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/559,434
Source: PCT 10
Date Processed by STIC: 12/16/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENT IN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

$$\underline{10} \overline{) 559,434}$$

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | | |
|----|--|--|
| 1 | _____ Wrapped Nucleics
Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 | _____ Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3 | _____ Misaligned Amino
Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead. |
| 4 | _____ Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5 | _____ Variable Length | Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 | _____ PatentIn 2.0
"bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7 | _____ Skipped Sequences
(OLD RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8 | _____ Skipped Sequences
(NEW RULES) | Sequence(s) _____ missing. If intentional , please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000 |
| 9 | _____ Use of n's or Xaa's
(NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10 | _____ Invalid <213>
Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence |
| 11 | _____ Use of <220> | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
<u>Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.</u>
<u>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)</u> |
| 12 | _____ PatentIn 2.0
"bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 | _____ Misuse of n/Xaa | "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid |



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/559,434

DATE: 12/16/2005

TIME: 15:38:57

Input Set : A:\SEQUENCE LISTING.txt

Output Set : N:\CRF4\12162005\J559434.raw

3 <110> APPLICANT: Degussa AG
 5 <120> TITLE OF INVENTION: Screening process for hydantoin racemases
 7 <130> FILE REFERENCE: 030115 AM
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/559,434
 C--> 10 <141> CURRENT FILING DATE: 2005-12-05
 12 <160> NUMBER OF SEQ ID NOS: 16
 14 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
 Corrected Diskette Needed
 Cp9-1,2,3,4,5

ERRORED SEQUENCES

156 <210> SEQ ID NO: 4
 157 <211> LENGTH: 237 → found 236
 158 <212> TYPE: PRT
 159 <213> ORGANISM: Artificial sequence
 W--> 160
 160 <223> OTHER INFORMATION: Description of the artificial sequence (1BG7)
 162 <400> SEQUENCE: 4
 163 Met Arg Ile Leu Val Ile Asn Pro Asn Ser Ser Ser Ala Leu Thr Glu
 164 1 5 10 15
 166 Ser Val Ala Asp Ala Ala Gln Gln Val Val Ala Thr Gly Thr Ile Ile
 167 20 25 30
 169 Ser Ala Ile Asn Pro Ser Arg Gly Pro Ala Val Ile Glu Gly Ser Phe
 170 35 40 45
 172 Asp Glu Ala Leu Ala Thr Phe His Leu Ile Glu Glu Val Glu Arg Ala
 173 50 55 60
 175 Glu Arg Glu Asn Pro Pro Asp Ala Tyr Val Ile Ala Cys Phe Arg Asp
 176 65 70 75 80
 178 Pro Gly Leu Asp Ala Val Lys Glu Leu Thr Asp Arg Pro Val Val Gly
 179 85 90 95
 181 Val Ala Glu Ala Ala Ile His Met Ser Ser Phe Val Ala Ala Thr Phe
 182 100 105 110
 184 Ser Ile Val Ser Ile Leu Pro Arg Val Arg Lys His Leu His Glu Leu
 185 115 120 125
 187 Val Arg Gln Ala Gly Ala Thr Asn Arg Leu Ala Ser Ile Lys Leu Pro
 188 130 135 140
 190 Asn Leu Gly Val Met Ala Phe His Glu Asp Glu His Ala Ala Leu Glu
 191 145 150 155 160
 193 Thr Leu Lys Gln Ala Ala Lys Glu Ala Val Gln Glu Asp Gly Ala Glu
 194 165 170 175
 196 Ser Ile Val Leu Gly Cys Ala Gly Met Val Gly Phe Ala Arg Gln Leu
 197 180 185 190
 199 Ser Asp Glu Leu Gly Val Pro Val Ile Asp Pro Val Glu Ala Ala Cys

Invalid Response
 What is the
 Source of genetic
 Material?
 Pls See Item
 # 11 on
 Error Summary
 Sheet.

<210> 1
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Description of the artificial sequence
Consensus sequence

<400> 1
Phe Xaa Asp Xaa Gly Leu
1 5

Pls Explain 'Xaa' locations which
residue they represents.
See Error Explanation on page-6

P41

The type of errors shown exist throughout
the sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/559,434

DATE: 12/16/2005

TIME: 15:38:57

Input Set : A:\SEQUENCE LISTING.txt

Output Set : N:\CRF4\12162005\J559434.raw

```

200          195          200          205
202 Arg Val Ala Glu Ser Leu Val Ala Leu Gly Tyr Gln Thr Ser Lys Ala
203          210          215          220
205 Asn Ser Tyr Gln Lys Pro Thr Glu Lys Gln Tyr Leu
E--> 206 225          230          235
283 <210> SEQ ID NO: 6
284 <211> LENGTH: 237
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial sequence
W--> 287 <223> OTHER INFORMATION: Description of the artificial sequence: 3CH11
E--> 289 <400> SEQUENCE: 6
290 Met Arg Ile Leu Val Ile Asn Pro Asn Ser Ser Ser Ala Leu Thr Glu
291 1          5          10          15
293 Ser Val Ala Asp Ala Ala Gln Gln Val Val Ala Thr Gly Thr Ile Ile
294          20          25          30
296 Ser Ala Ile Asn Pro Ser Arg Gly Pro Ala Val Ile Glu Gly Ser Phe
297          35          40          45
299 Asp Glu Ala Leu Ala Thr Phe His Leu Ile Glu Glu Val Glu Arg Ala
300          50          55          60
302 Glu Arg Glu Asn Pro Pro Asp Ala Tyr Val Ile Ala Cys Phe Glu Asp
303 65          70          75          80
305 Pro Gly Leu Asp Ala Val Lys Glu Leu Thr Asp Arg Pro Val Val Gly
306          85          90          95
308 Val Ala Glu Ala Ala Ile His Met Ser Ser Phe Val Ala Ala Thr Phe
309          100         105         110
311 Ser Ile Val Ser Ile Leu Pro Arg Val Arg Lys His Leu His Glu Leu
312          115         120         125
314 Val Arg Gln Ala Gly Ala Thr Asn Arg Leu Ala Ser Ile Lys Leu Pro
315          130         135         140
317 Asn Leu Gly Val Met Ala Phe His Glu Asp Glu His Ala Ala Leu Glu
318 145         150         155         160
320 Thr Leu Lys Gln Ala Ala Lys Glu Ala Val Gln Glu Asp Gly Ala Glu
321          165         170         175
323 Ser Ile Val Leu Gly Cys Ala Gly Met Val Gly Phe Ala Arg Gln Leu
324          180         185         190
326 Ser Asp Glu Leu Gly Val Pro Val Ile Asp Pro Val Glu Ala Ala Cys
327          195         200         205
329 Arg Val Ala Glu Ser Leu Val Ala Leu Gly Tyr Gln Thr Ser Lys Ala
330          210         215         220
332 Asn Ser Tyr Gln Lys Pro Thr Glu Lys Gln Tyr Leu
E--> 333 225          230          235
412 <210> SEQ ID NO: 8
413 <211> LENGTH: 237
414 <212> TYPE: PRT
415 <213> ORGANISM: Artificial sequence
W--> 416 <223> OTHER INFORMATION: Description of the artificial sequence: AE3
E--> 418 <400> SEQUENCE: 8

```

found 236

Insert <220>

Some Error

pls Insert <220>

Some Error

RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,434

TIME: 15:38:57

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12162005\J559434.raw

```

419 Met Arg Ile Leu Val Ile Asn Pro Asn Ser Ser Ser Ala Leu Thr Glu
420 1 5 10 15
422 Ser Val Ala Asp Ala Ala Gln Gln Val Val Ala Thr Gly Thr Ile Ile
423 20 25 30
425 Ser Ala Ile Asn Pro Ser Arg Gly Pro Ala Val Ile Glu Gly Ser Phe
426 35 40 45
428 Asp Glu Ala Leu Ala Thr Phe His Leu Ile Glu Glu Val Glu Arg Ala
429 50 55 60
431 Glu Arg Glu Asn Pro Pro Asp Ala Tyr Val Ile Ala Cys Phe Gln Asp
432 65 70 75 80
434 Pro Gly Leu Asp Ala Val Lys Glu Leu Thr Asp Arg Pro Val Val Gly
435 85 90 95
437 Val Ala Glu Ala Ala Ile His Met Ser Ser Phe Val Ala Ala Thr Phe
438 100 105 110
440 Ser Ile Val Ser Ile Leu Pro Arg Val Arg Lys His Leu His Glu Leu
441 115 120 125
443 Val Arg Gln Ala Gly Ala Thr Asn Arg Leu Ala Ser Ile Lys Leu Pro
444 130 135 140
446 Asn Leu Gly Val Met Ala Phe His Glu Asp Glu His Ala Ala Leu Glu
447 145 150 155 160
449 Thr Leu Lys Gln Ala Ala Lys Glu Ala Val Gln Glu Asp Gly Ala Glu
450 165 170 175
452 Ser Ile Val Leu Gly Cys Ala Gly Met Val Gly Phe Ala Arg Gln Leu
453 180 185 190
455 Ser Asp Glu Leu Gly Val Pro Val Ile Asp Pro Val Glu Ala Ala Cys
456 195 200 205
458 Arg Val Ala Glu Ser Leu Val Ala Leu Gly Tyr Gln Thr Ser Lys Ala
459 210 215 220
461 Asn Ser Tyr Gln Lys Pro Thr Glu Lys Gln Tyr Leu
E--> 462 225 230 235
541 <210> SEQ ID NO: 10
542 <211> LENGTH: 237 → found 236
543 <212> TYPE: PRI
544 <213> ORGANISM: Artificial sequence
W--> 545 → <220> Insert
545 <223> OTHER INFORMATION: Description of the artificial sequence: BB5
E--> 547 <400> SEQUENCE: 10
548 Met Arg Ile Leu Val Ile Asn Pro Asn Ser Ser Ser Ala Leu Thr Glu
549 1 5 10 15
551 Ser Val Ala Asp Ala Ala Gln Gln Val Val Ala Thr Gly Thr Ile Ile
552 20 25 30
554 Ser Ala Ile Asn Pro Ser Arg Gly Pro Ala Val Ile Glu Gly Ser Phe
555 35 40 45
557 Asp Glu Ala Leu Ala Thr Phe His Leu Ile Glu Glu Val Glu Arg Ala
558 50 55 60
560 Glu Arg Glu Asn Pro Pro Asp Ala Tyr Val Ile Ala Cys Phe Leu Asp
561 65 70 75 80
563 Pro Gly Leu Asp Ala Val Lys Glu Leu Thr Asp Arg Pro Val Val Gly
564 85 90 95

```

Same error

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,434

TIME: 15:38:57

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12162005\J559434.raw

```

566 Val Ala Glu Ala Ala Ile His Met Ser Ser Phe Val Ala Ala Thr Phe
567          100          105          110
569 Ser Ile Val Ser Ile Leu Pro Arg Val Arg Lys His Leu His Glu Leu
570          115          120          125
572 Val Arg Gln Ala Gly Ala Thr Asn Arg Leu Ala Ser Ile Lys Leu Pro
573          130          135          140
575 Asn Leu Gly Val Met Ala Phe His Glu Asp Glu His Ala Ala Leu Glu
576 145          150          155          160
578 Thr Leu Lys Gln Ala Ala Lys Glu Ala Val Gln Glu Asp Gly Ala Glu
579          165          170          175
581 Ser Ile Val Leu Gly Cys Ala Gly Met Val Gly Phe Ala Arg Gln Leu
582          180          185          190
584 Ser Asp Glu Leu Gly Val Pro Val Ile Asp Pro Val Glu Ala Ala Cys
585          195          200          205
587 Arg Val Ala Glu Ser Leu Val Ala Leu Gly Tyr Gln Thr Ser Lys Ala
588          210          215          220
591 Asn Ser Tyr Gln Lys Pro Thr Glu Lys Gln Tyr Leu
E--> 592 225          230          235

```

VARIABLE LOCATION SUMMARY

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,434

TIME: 15:38:58

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12162005\J559434.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; Xaa Pos. 2,4

Seq#:14; N Pos. 49

Error Explanation

VERIFICATION SUMMARY

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,434

TIME: 15:38:58

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF4\12162005\J559434.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:1
L:26 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:1
L:26 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:162 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4
L:206 M:252 E: No. of Seq. differs, <211> LENGTH:Input:237 Found:236 SEQ:4
L:287 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:289 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:6
L:333 M:252 E: No. of Seq. differs, <211> LENGTH:Input:237 Found:236 SEQ:6
L:416 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:418 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:8
L:462 M:252 E: No. of Seq. differs, <211> LENGTH:Input:237 Found:236 SEQ:8
L:545 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:547 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:10
L:592 M:252 E: No. of Seq. differs, <211> LENGTH:Input:237 Found:236 SEQ:10
L:832 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:14
L:832 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:14
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0